

## METHODS OF FORMING A SUPPORTED ACTIVATED CATALYST COMPOSITION

### ABSTRACT

5           Processes of forming a supported activated catalyst composition and method of  
polymerization are disclosed, the process of forming the composition including combining  
a halogenated aromatic aluminum activator compound with a fluorinated support and a  
catalyst to form a supported activated catalyst composition. Also disclosed is a supported  
activated catalyst composition, comprising the reaction product of a fluorinated support, a  
10   perfluorophenyl aluminum activator and in one embodiment a metallocene catalyst. In  
one embodiment, the halogenated aromatic aluminum activator is represented by the  
formula  $R_nAl(ArHal)_{3-n}$ , wherein ArHal is a halogenated aryl group, R is a monoanionic  
ligand, and n is 1 or 2.